CLAIMS

We claim:

1   1.   A method comprising:

2   applying an inverse wavelet transform to data repeatedly for a

3   plurality of decomposition levels; and

4   clipping, after each application of the inverse wavelet transform, any

5   value generated as a result of application of the inverse wavelet transform

6   that exceeds a predetermined range associated with that decomposition

7   level subband of the inverse wavelet transform.

1   2.   The method defined in Claim 1 wherein the inverse wavelet

2   transform comprises a 5,3 wavelet transform filter.

1   3.   The method defined in Claim 1 wherein the inverse wavelet

2   transform comprises a 9,7 wavelet transform filter.

1   4.   An article of manufacture comprising one or more recordable

2   media having executable instructions stored thereon which, when executed

3   by a machine, cause the machine to:

4   apply an inverse wavelet transform to data repeatedly for a plurality

5   of decomposition levels; and

6   clip, after each application of the inverse wavelet transform, any

7   value generated as a result of application of the inverse wavelet transform

8   that exceeds a predetermined range associated with that decomposition

9   level, subband and inverse wavelet transform.

1   5.   The article of manufacture defined in Claim 4 wherein the

2   inverse wavelet transform comprises a 5,3 wavelet transform filter.

1   6.   The article of manufacture defined in Claim 4 wherein the

2   inverse wavelet transform comprises a 9,7 wavelet transform filter.

1   7.   An apparatus comprising:

2   means for applying an inverse wavelet transform to data repeatedly

3   for a plurality of decomposition levels; and

4   means for clipping, after each application of the inverse wavelet

5   transform, any value generated as a result of application of the inverse

6   wavelet transform that exceeds a predetermined range associated with that

7   decomposition level, subband and inverse wavelet transform.

1   8.   The apparatus defined in Claim 7 wherein the inverse wavelet

2   transform comprises a 5,3 wavelet transform filter.

1   9.   The apparatus defined in Claim 7 wherein the inverse wavelet

2   transform comprises a 9,7 wavelet transform filter.

1   10.   A method comprising:

2   applying a forward wavelet transform to input data in a 4:x:x format

3   to generate encoded data, where x is not equal to 4; and

4   quantizing level 1 coefficients in high-low (HL) and high-high (HH)

5   subbands to zero, such that the encoded data resembles 4:4:4 formatted data.

1   11.   The method defined in Claim 10 further comprising quantizing

2   level 1 coefficients in a low-high (LH) subband to zero.

1   12.   The method defined in Claim 11 wherein the input data is 4:1:1

2   formatted data.

1   13.   The method defined in Claim 10 wherein the input data is 4:2:2

2   formatted data.

1   14.   An apparatus comprising:

2   means for applying a forward wavelet transform to input data in a

3   4:x:x format to generate encoded data, where x is not equal to 4; and

4   means for quantizing level 1 coefficients in high-low (HL) and high-

5   high (HH) subbands to zero, such that the encoded data resembles 4:4:4

6   formatted data.

1   15.   The apparatus defined in Claim 14 further comprising means

2   for quantizing level 1 coefficients in a low-high (LH) subband to zero.

1   16.   The apparatus defined in Claim 11 wherein the input data is

2   4:1:1 formatted data.

1   17.   The apparatus defined in Claim 10 wherein the input data is

2   4:2:2 formatted data.

1   18.   An article of manufacture comprising one or more recordable

2   media having executable instructions stored thereon which, when executed

3   by a machine, cause the machine to:

4   apply a forward wavelet transform to input data in a 4:x:x format to

5   generate encoded data, where x is not equal to 4; and

6   quantize level 1 coefficients in high-low (HL) and high-high (HH)

7   subbands to zero, such that the encoded data resembles 4:4:4 formatted data.

1   19.   The article of manufacture defined in Claim 18 further

2   comprising quantizing level 1 coefficients in a low-high (LH) subband to

3   zero.

1   20.   The article of manufacture defined in Claim 19 wherein the

2   input data is 4:1:1 formatted data.

1   21.   The article of manufacture defined in Claim 18 wherein the

2   input data is 4:2:2 formatted data.